

Substitute for Form 1449 A & B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Not Assigned
<i>(use as many sheets as necessary)</i>				Confirmation Number	Not Assigned
				Filing Date	September 16, 2003
				First Named Inventor	Sang-Yup LEE
				Art Unit	Not Assigned
				Examiner Name	Not Assigned
Sheet		1	of	2	Attorney Docket Number
					Q77446

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
dw		US 6,143,952		11/07/2000	Srienc et al.

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁴
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
dw		WO	01/55436	A1	08/02/2001	Green	
dw		WO	98/54329		12/03/1998	Wiholt et al.	
dw		WO	99/61624		12/02/1999	Skraly et al.	

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.					Translation ⁴
dw		Fukui et al., "Expression and Characterization of (R)-Specific Enoyl Coenzyme A Hydratase Involved in Polyhydroxyalkanoate Biosynthesis by <i>Aeromonas caviae</i> ," <i>Journal of Bacteriology</i> , Vol. 180, No. 3, (February 1998), pp. 667-673					
dw		Tsuge et al., "Molecular cloning of two (R)-specific enoyl-CoA hydratase genes from <i>Pseudomonas aeruginosa</i> and their use for polyhydroxyalkanoate synthesis," <i>FEMS Microbiology Letters</i> 184, (1999), pp. 193-198					
dw		Taguchi et al., "Co-expression of 3-ketoacyl-ACP reductase and polyhydroxyalkanoate synthase genes induced PHA production in <i>Escherichia coli</i> HB101 strain," <i>FEMS Microbiology Letters</i> 176, (1999), pp. 183-190					
dw		Ren et al., "FabG, an NADPH-Dependent 3-Ketoacyl Reductase of <i>Pseudomonas aeruginosa</i> , Provides Precursors for Medium-Chain-Length Poly-3-Hydroxyalkanoate Biosynthesis in <i>Escherichia coli</i> ," <i>Journal of Bacteriology</i> , Vol. 182, No. 10, (May 2000), pp. 2978-2981					
dw		Park et al., "Metabolic engineering of <i>Escherichia coli</i> for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers," <i>FEMS Microbiology Letters</i> 214, (2002), pp. 217-222					
dw		Qi et al., "Synthesis of poly(3-hydroxyalkanoates) in <i>Escherichia coli</i> expressing the PHA synthase gene <i>phaC2</i> from <i>Pseudomonas aeruginosa</i> : comparison of <i>PhaC1</i> and <i>PhaC2</i> ," <i>FEMS Microbiology Letters</i> 157, (1997), pp. 155-162					
dw		Qi et al., "Metabolic routing towards polyhydroxyalkanoic acid synthesis in recombinant <i>Escherichia coli</i> (<i>fadR</i>): inhibition of fatty acid β -oxidation by acrylic acid," <i>FEMS Microbiology Letters</i> 167, (1998), pp. 89-94					
dw		Langenbach et al., "Functional expression of the PHA synthase gene <i>phaC1</i> from <i>Pseudomonas aeruginosa</i> in <i>Escherichia coli</i> results in poly(3-hydroxyalkanoate) synthesis," <i>FEMS Microbiology Letters</i> 150, (1997), pp. 303-309					

Examiner Signature	dwiholt	Date Considered	11/24/05
--------------------	---------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Not Assigned
				Confirmation Number	Not Assigned
				Filing Date	September 16, 2003
				First Named Inventor	Sang-Yup LEE
				Art Unit	Not Assigned
				Examiner Name	Not Assigned
Sheet	2	of	2	Attorney Docket Number	Q77446

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
	US				
	US				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.					Translation ⁶
dw		Snell <i>et al.</i> , "YfcX Enables Medium-Chain-Length Poly(3-Hydroxyalkanoate) Formation from Fatty Acids in Recombinant <i>Escherichia coli fadB</i> Strains," <i>Journal of Bacteriology</i> , October 2002, pp. 5696-5705					
dw		Steinebach <i>et al.</i> , "Cloning of the <i>maoA</i> gene that encodes aromatic amine oxidase of <i>Escherichia coli</i> W3350 and characterization of the overexpressed enzyme," <i>Eur. J. Biochem.</i> , Vol. 237, (1996), pp. 584-591					
dw		Blattner <i>et al.</i> , "The Complete Genome Sequence of <i>Escherichia coli</i> K-12," <i>Science</i> , Vol. 277, (September 5, 1997), pp. 1453-1462					
dw		Jeong <i>et al.</i> , "Excretion of Human β -Endorphin into Culture Medium by Using Outer Membrane Protein F as a Fusion Partner in Recombinant <i>Escherichia coli</i> ," <i>Applied and Environmental Microbiology</i> , (Vol. 68, No. 10, (October 2002), pp. 4979-4985					
dw		Park <i>et al.</i> , "Enrichment of specific monomer in medium-chain-length poly(3-hydroxyalkanoates) by amplification of <i>fadd</i> and <i>fadE</i> genes in recombinant <i>Escherichia coli</i> ," <i>Enzyme and Microbial Technology</i> , Vol. 33, (2003), pp. 62-70					
dw		Matsusaki <i>et al.</i> , "Cloning and Molecular Analysis of the Poly(3-hydroxybutyrate) and Poly(3-hydroxybutyrate-co-3-hydroxyalkanoate) Biosynthesis Genes in <i>Pseudomonas</i> sp. Strain 61-3," <i>Journal of Bacteriology</i> , Vol. 180, No. 24, (December 1998), pp. 6459-6467					
dw		Peekhaus <i>et al.</i> , "Positive and Negative Transcriptional Regulation of the <i>Escherichia coli</i> Gluconate Regulon Gene <i>gnlT</i> by GntR and the Cyclic AMP (cAMP)-cAMP Receptor Protein Complex," <i>Journal of Bacteriology</i> , Vol. 180, No. 7, (April 1998), pp. 1777-1785					
dw		Sambrook <i>et al.</i> , "Molecular Cloning, Second Edition, A Laboratory Manual," <i>Cold Spring Harbor Laboratory</i> , (1989), pp. xi-xxxv					
dw		Kovach <i>et al.</i> , "Four new derivatives of the broad-host-range cloning vector pBBR1 MCS, carrying different antibiotic-resistance cassettes," <i>Gene</i> , Vol. 166, (1995), pp. 175-176					

Examiner Signature	<i>M. Wieliczka</i>	Date Considered	11/24/05
--------------------	---------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.